| | _ |
|--|---|
| Customer's Record The model number and serial number of this product may be found on its rear panel. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes. | |
| Model Number Serial Number | |

Matsushita Electric Industrial Co., Ltd.

© 2007 Matsushita Electric Industrial Co., Ltd. All Rights Reserved.

Web Site : http://panasonic.net/

Panasonic

Operating Instructions Plasma Television

TH-37PV70AZ
TH-42PV70AZ
TH-50PV70AZ











English

Please read these instructions before operating your set and retain them for future reference.

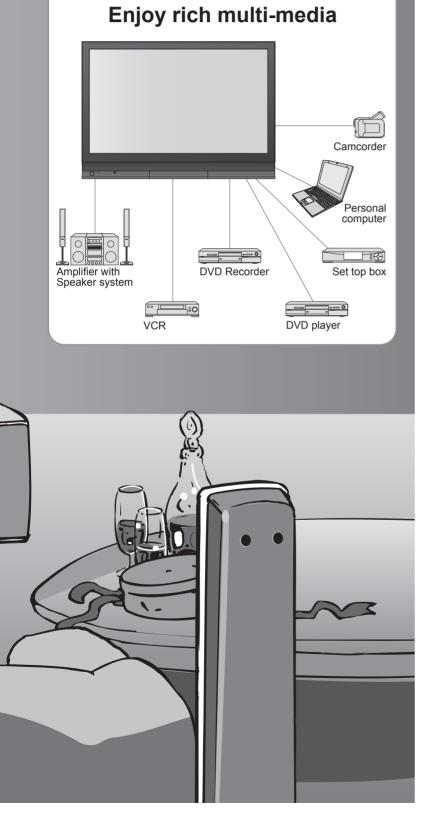
The images shown in this manual are for illustrative purposes only.

Turn your own living room into a movie theatre!

Experience an amazing level of multi-



media excitement



Contents

| Be Sure to Read |
|--|
| Safety Precautions (Warning / Caution) |
| ● Notes·····5 |
| Maintenance5 |
| |
| Quick Start Guide |
| •Accessories / Options ········ 6 |
| •Identifying Controls 7 |
| Basic Connection |
| •Auto Tuning····· |
| •Language Setting ·········· 10 |
| - Language Setting |
| |
| |

Enjoy your TV!

Basic Features

| Watching TV | 1 |
|----------------------------------|---|
| ■ Watching Videos and DVDs······ | 1 |
| ● Viewing Teletext ······ | 1 |

Advanced Features

| How to Use Menu Functions | 8 |
|--|----|
| (picture, sound quality, etc.) | |
| ● Editing and Setting Channels ························2 | 22 |
| Control Channel Audience2 | 24 |
| Restore Settings2 | 25 |
| ● Input Labels ······2 | 26 |
| ■ Displaying PC Screen on TV······2 | 27 |
| ■ VIERA Link "HDAVI Control™" ······ 2 | 28 |
| ● External Equipment ······ 3 | 30 |
| | |

FAQs, etc.

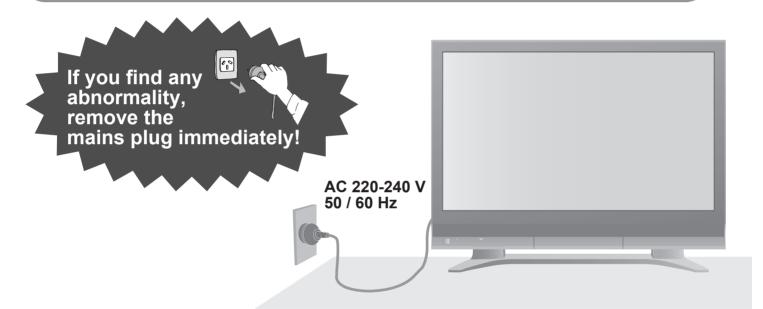
| - | |
|-----------------------|----|
| Technical Information | 32 |
| ● FAQs ····· | 36 |
| Licence | 38 |
| ■ WARRANTY | 38 |
| Specifications | 30 |

Safety Precautions

Warning

Handling the mains plug and lead

- Insert the mains plug fully into the socket outlet. (If the mains plug is loose, it could generate heat and cause fire.)
- Ensure that the mains plug is easily accessible.
- Ensure the grounding pin on the mains plug is securely connected to prevent electrical shock.
- Do not touch the mains plug with a wet hand. (This may cause electrical shock.)
- Do not use any mains lead other than that provided with this TV. (This may cause fire or electrical shock.)
- Do not damage the mains lead. (A damaged lead may cause fire or electrical shock.)
 - •Do not move the TV with the lead plugged in the socket outlet.
 - •Do not place a heavy object on the lead or place the lead near a high-temperature object.
 - •Do not twist the lead, bend it excessively, or stretch it.
 - •Do not pull on the lead. Hold onto the mains plug body when disconnecting lead.
 - •Do not use a damaged mains plug or socket outlet.



Do not remove covers NEVER modify the TV yourself

(High-voltage components may cause serious electrical shock.)

 Have the TV checked, adjusted, or repaired at your local Panasonic dealer.

Keep liquids away from the TV

- To prevent damage which may result in fire or shock hazard, do not expose this appliance to dripping or splashing.
- Do not place containers with water (flower vase, cups, cosmetics, etc.) above the TV. (including on shelves above, etc.)

Do not expose to direct sunlight and other sources of heat

 Avoid exposing the TV to direct sunlight and other sources of heat. To prevent fire never place any type of candle or naked flame on top or near the TV

Do not place foreign objects inside the TV

 Do not let metal or flammable objects drop into the TV through the air vents (fire or electrical shock may result).

Do not place the TV on sloped or unstable surfaces

The TV may fall off or tip over.

Use only the dedicated stands / mounting equipment

- Using an unauthorized stand or other fixtures may make the TV shaky, risking injury. Be sure to ask your local Panasonic dealer to perform setup.
- Use optional stands / mounts (p. 6).

Notes

Caution

■When cleaning the TV, remove the mains plug

(Cleaning an energized TV may cause electrical shock.)

■When TV will not be used for a long time, remove the mains plug

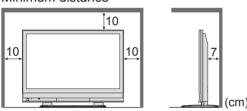
 This TV will still consume some power even in the Off mode, as long as the mains plug is still connected to a live socket outlet.

■ Transport only in upright position

 Transporting the TV with its display panel facing upright or downward may cause damage to the internal circuitry.

Allow sufficient space around the TV for radiated heat

Minimum distance



■Do not block the rear air vents

 Blocked ventilation by curtains, etc. may cause overheating, fire or electrical shock.



Do not display a still picture for a long time

This causes the image to remain on the plasma screen ("image retention").

This is not considered a malfunction and is not covered by the warranty.

Typical still images

- Channel number and other logos
- Image displayed in 4:3 mode
- Video game
- Computer image



To prevent image retention, contrast is lowered automatically after a few minutes if no signals are sent or no operations are performed. (p. 36)

■ Auto power standby function

• If no signal is received and no operation is performed in TV mode for 30 minutes, the TV will automatically go to standby mode.

■ Keep the TV away from these equipment

Equipment with an infrared sensor
 This TV also emits infrared rays (this may affect operation of other equipment).

Maintenance

First, remove the mains plug from the socket outlet.

Display panel

Regular care: Gently wipe the surface clean of dirt by using a soft cloth.

Major contamination: Wipe the surface clean using a soft cloth dampened with clean water or diluted neutral detergent by 100 times of water. Then, using a soft dry cloth, evenly wipe the surface clean until it is dry.

Caution

The surface of the display panel has been specially treated and may be easily damaged. Do not tap or scratch the surface with your fingernail or other hard object.

 Use care not to subject the surface to bug repellent, solvent, thinner, or other volatile substances (this may degrade surface quality).

Cabinet

Regular care: Wipe the surface clean using a soft dry cloth.

Major contamination: Dampen a soft cloth with clean water or water containing a small amount of neutral detergent. Then, wring the cloth and wipe the surface clean with it. Finally, wipe the surface clean with a dry cloth.

Caution

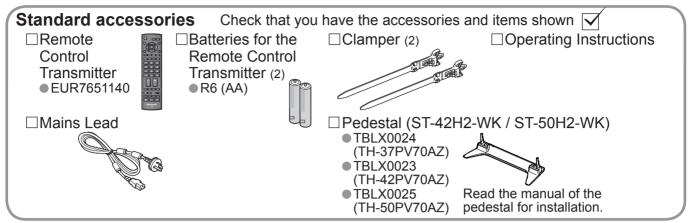
Use care not to subject the TV's surfaces to detergent. (A liquid inside the TV could lead to product failure.)

Use care not to subject surfaces to bug repellent, solvent, thinner, or other volatile substances (this may deteriorate the surface by peeling the paint).

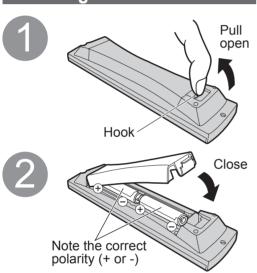
Do not allow the cabinet to make contact with a rubber or PVC substance for a long time.

Mains plug

Accessories / Options



Installing remote's batteries

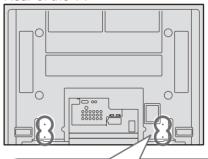


(Caution)

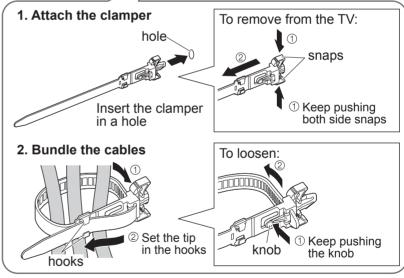
- Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote control.
- Do not mix old and new batteries.
- Do not mix different battery types (such as alkaline and manganese batteries).
- Do not use rechargeable (Ni-Cd) batteries.
- Do not burn or breakup batteries.

Using the clamper

Rear of the TV



- Do not bundle the RF cable and mains lead together (could cause distorted image).
- Fix cables with clampers as necessary.
- When using the optional accessory, follow the option's assembly manual to fix cables.



Optional accessories

Pedestal

- ●TY-ST42D1-WK
- ●TY-ST42D2-WK (TH-37PV70AZ, TH-42PV70AZ)
- ●TY-ST50D1-WK
- ●TY-ST50D2-WK (TH-50PV70AZ)



Plasma TV stand

- TY-S37PX70WK (TH-37PV70AZ)
- ●TY-S42PX70WK (TH-42PV70AZ)
- TY-S50PX70WK (TH-50PV70AZ)



Wall-hanging bracket (vertical)

●TY-WK42PV3W

(angle)

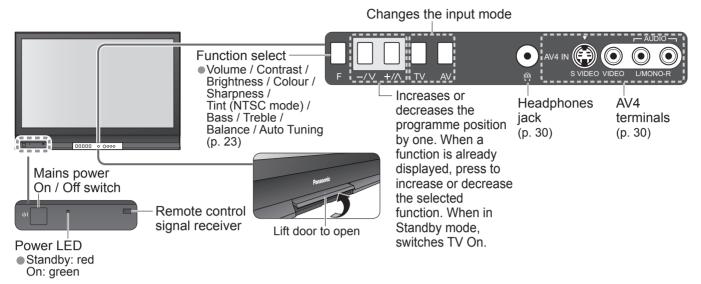
- ●TY-WK42PR2W
- TY-WK42PR3W

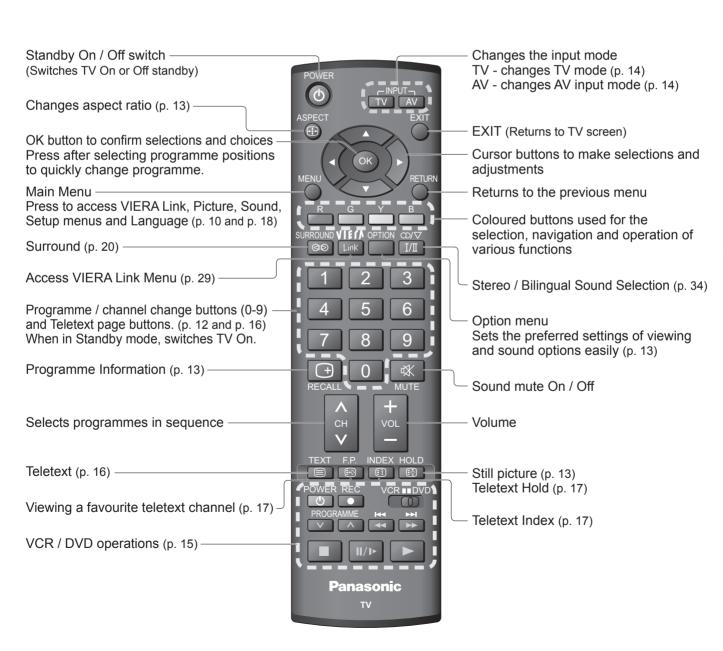


Caution)

- In order to maintain the unit's performance and safety, be absolutely sure to ask your dealer or a licenced contractor to secure the wall-hanging brackets.
- Carefully read the instructions accompanying the plasma TV stand or pedestal, and be absolutely sure to take steps to prevent the TV from tipping over.
- Handle the TV carefully during installation since subjecting it to impact or other forces may cause product damage.

Identifying Controls





Basic Connection

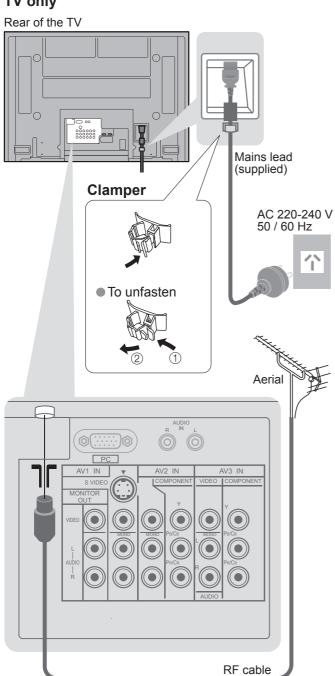
External equipment and cables shown are not supplied with this TV.

Please ensure that the unit is disconnected from the mains socket before attaching or disconnecting any leads. When disconnecting the mains lead, be absolutely sure to disconnect the mains plug at the socket outlet first.

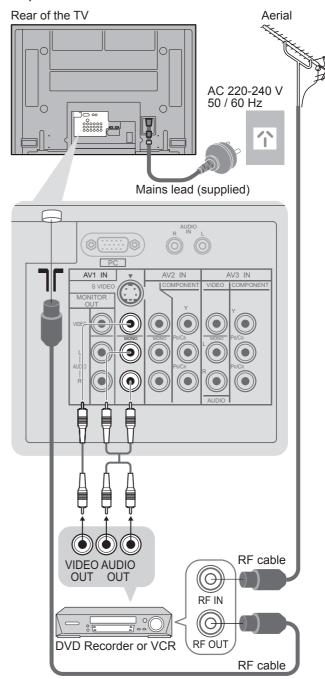


Example 2 Connecting DVD Recorder / VCR

TV only



TV, DVD Recorder or VCR



Note

- Do not put the Coaxial cable close to the mains lead to avoid noise.
- Do not place the Coaxial cable under the TV.
- lacktriangle To obtain optimum quality picture and sound, an Aerial, the correct cable (75 Ω coaxial) and the correct terminating plug are required.
- If a communal Aerial system is used, you may require the correct connection cable and plug between the wall Aerial socket and the TV.
- Your local Television Service Centre or dealer may be able to assist you in obtaining the correct Aerial system for your particular area and the accessories required.
- Any matters regarding Aerial installation, upgrading of existing systems or accessories required, and the costs incurred, are the responsibility of you, the Customer.

Auto Tuning

Search and store TV channels automatically.

These steps are not necessary if the setup has been completed by your local dealer.



Panasonic

Plug the TV into mains socket and switch On

(Takes a few seconds to be displayed)



You can now use the remote control to turn On the TV or turn the TV to standby mode. (Power LED: On)

Select your system



| System Selection | | |
|------------------|-----------|--|
| China | E.Europe | |
| HK/UK | SPECL Ver | |
| Asia/M.East | America | |
| NZ/INDONES | CATV | |
| Australia | Japan | |

| System Selection | REGION |
|---------------------|--|
| China | China |
| HK/UK | Hong Kong, United Kingdom |
| Asia/M.East | Malaysia, Singapore, Thailand, Asia countries, Kuwait, Saudi Arabia, United Arab Emirates, Middle East countries, etc. |
| NZ/INDONES | New Zealand, Indonesia, etc. |
| Australia | Australia |
| E.Europe | CIS, Poland, etc. |
| SPECL Ver | South Africa |
| America | USA, Chile, Mexico, Panama, Pelu, Philippines, Taiwan, Venezuela, etc. |
| CATV | USA CATV |
| Japan | Japan |



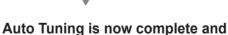
Start Auto Tuning





Auto Tuning will start to search for TV channels and store them. The TV memorises the channels tuned in order from programme number 1.

The sorted programme order depends upon the TV signal, the broadcasting system and reception conditions.





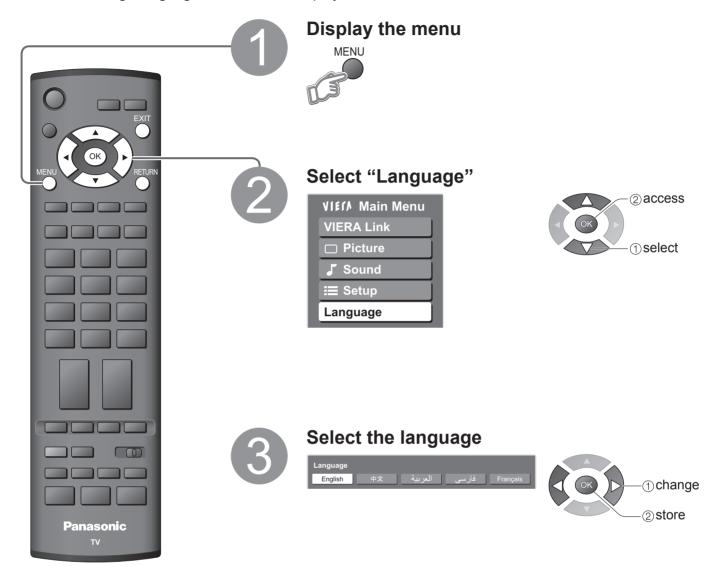
- To edit channels
 - Editing and Setting Channels (p. 22)

Note

- If tuning have failed ⇒ "Auto Tuning" (p. 23).
- If you turned the TV Off during Standby mode last time, the TV will be in Standby mode when you turn the TV On with Mains power On / Off switch.

Language Setting

You can change language for on-screen displays.



Many features available on this TV can be accessed via the On Screen Display menu.

■ How to use remote control



Open the main menu



Move the cursor / select the menu



Move the cursor / adjust levels / select from a range of options



Access the menu / store settings after adjustments have been made or options have been set

Using the On Screen **Displays**



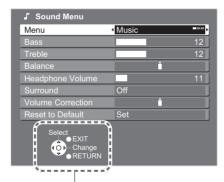
Return to the previous menu



Exit the menu system and return to the normal viewing screen

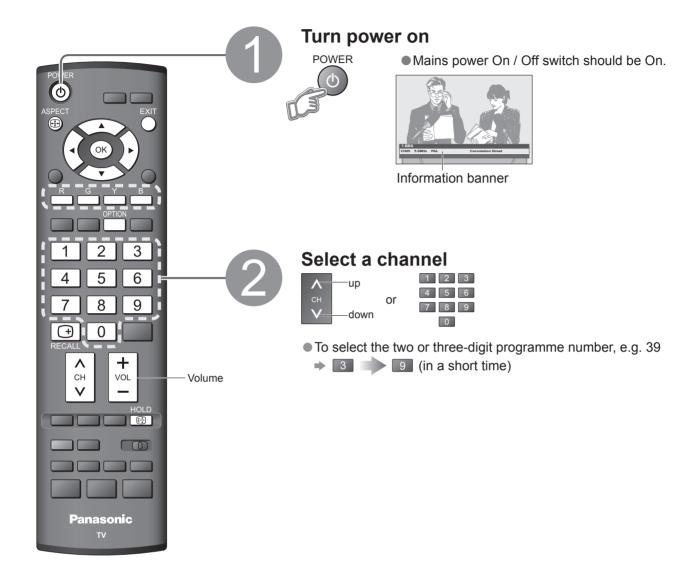
■ ON SCREEN HELP Instructions box

(example: Sound Menu)

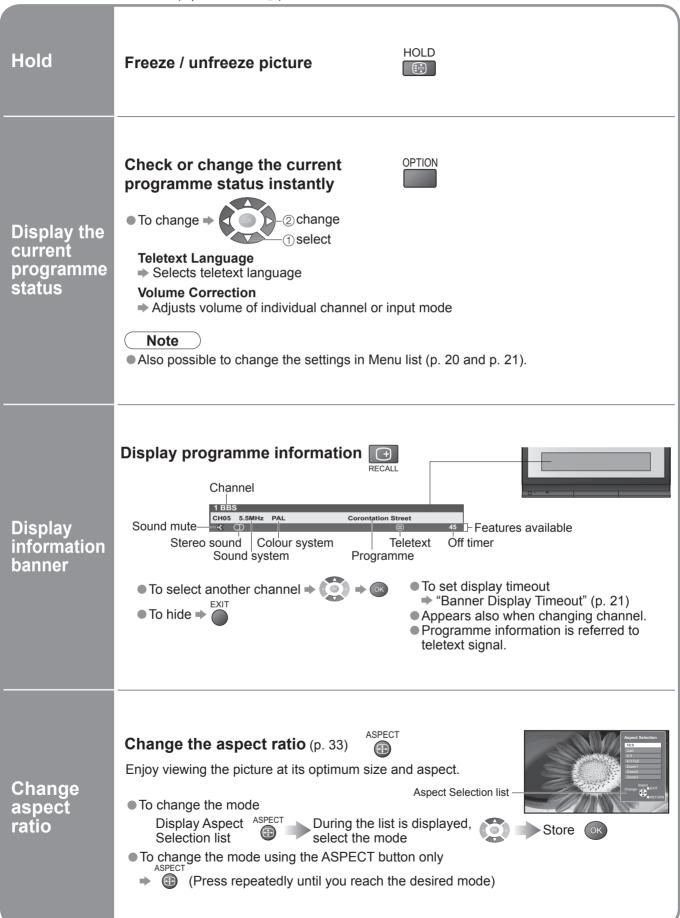


On-screen operation guide will help you.

Watching TV



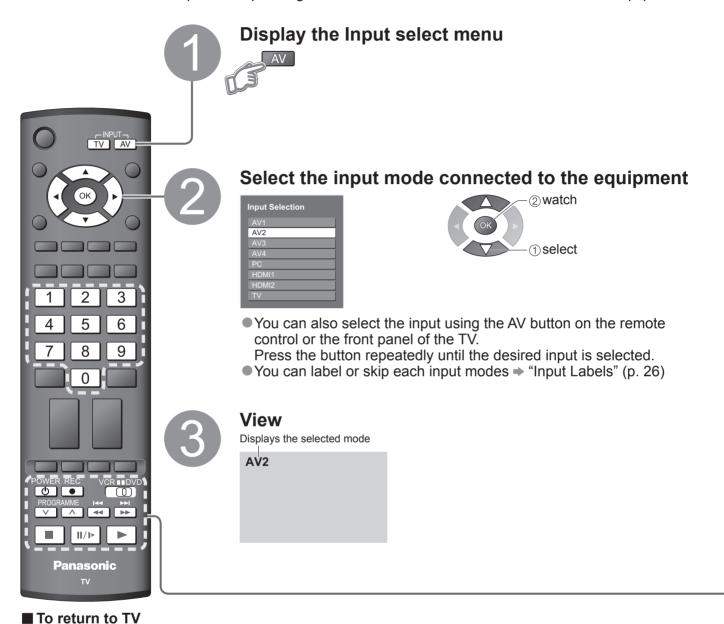
■ Other useful functions (Operate after ②)



Watching Videos and DVDs

Connect the external equipment (VCRs, DVD equipment, etc.) and you can watch the input. To connect the equipment (p. 8)

The Remote Control is capable of operating some functions of selected Panasonic external equipment.



Note

⇒ TV

[•] If the external equipment has an aspect adjustment function, set to "16:9".

[•] For details, see the manual of the equipment or ask your local dealer.

Panasonic equipment connected to the TV can be directly operated with the remote control.

| VCR ∎∎ DVD | VCR / DVD switch* Select VCR to operate Panasonic VCR or DVD equipment Select DVD to operate Panasonic DVD equipment or Player home theatre |
|---------------------------|--|
| POWER 😃 | Standby Set to Standby mode / Turn on |
| > | Play Playback videocassette / DVD |
| | Stop Stop the operations |
| l 44 ≪ ∢ | Rewind / Skip / Search VCR: Rewind, view the picture rapidly in reverse DVD: Skip to the previous track or title Press and hold to search backward |
| ▶ ► | Fast-forward / Skip / Search VCR: Fast-forward, view the picture rapidly forward DVD: Skip to the next track or title Press and hold to search forward |
| Ⅱ/▶ | Pause Pause / Restart DVD: Press and hold to play at slow speed |
| PROGRAMME | Programme Up / Down Select programme |
| REC | Record Start recording |

*Setting your remote control to operate Panasonic VCR, DVD, etc.

- ① Set the VCR / DVD switch to the appropriate position →
- ② Press and hold POWER during the following operations Enter the appropriate code for the equipment

to be controlled, see table below

| | alions | |
|---|--------|-------------|
| | 1 2 3 | |
| τ | 4 5 6 | → Press |
| | 7 8 9 | , , , , , , |
| | | |

"VCR" position

| Equipment | Code |
|-----------|--------------|
| VCR | 10 (default) |
| DVD | 11 |

| DVD position | |
|---------------------|--------------|
| Equipment | Code |
| DVD | 70 (default) |
| Player home theatre | 71 |

Note

- Confirm correct operation after the code changed.
- "DVD" means DVD player, DVD recorders and Recorder home theatre.
- Some operations may not be possible on some equipment models.

Viewing Teletext

You can enjoy teletext broadcasting, including news, weather forecasts and subtitles, if this service is provided by the broadcasters.

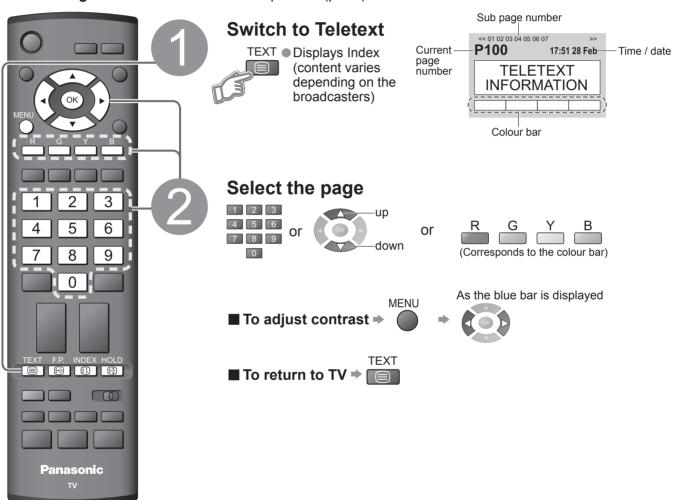
What is FASTEXT mode?

In FASTEXT mode, four differently coloured subjects are situated at the bottom of the screen. To access more information about one of these subjects, press the appropriately coloured button. This facility enables fast access to information on the subjects shown.

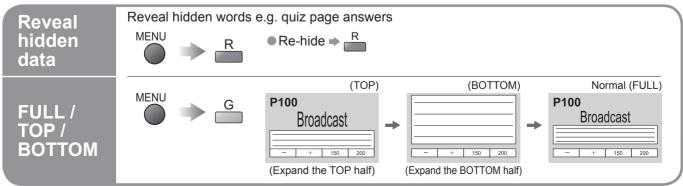
What is List mode?

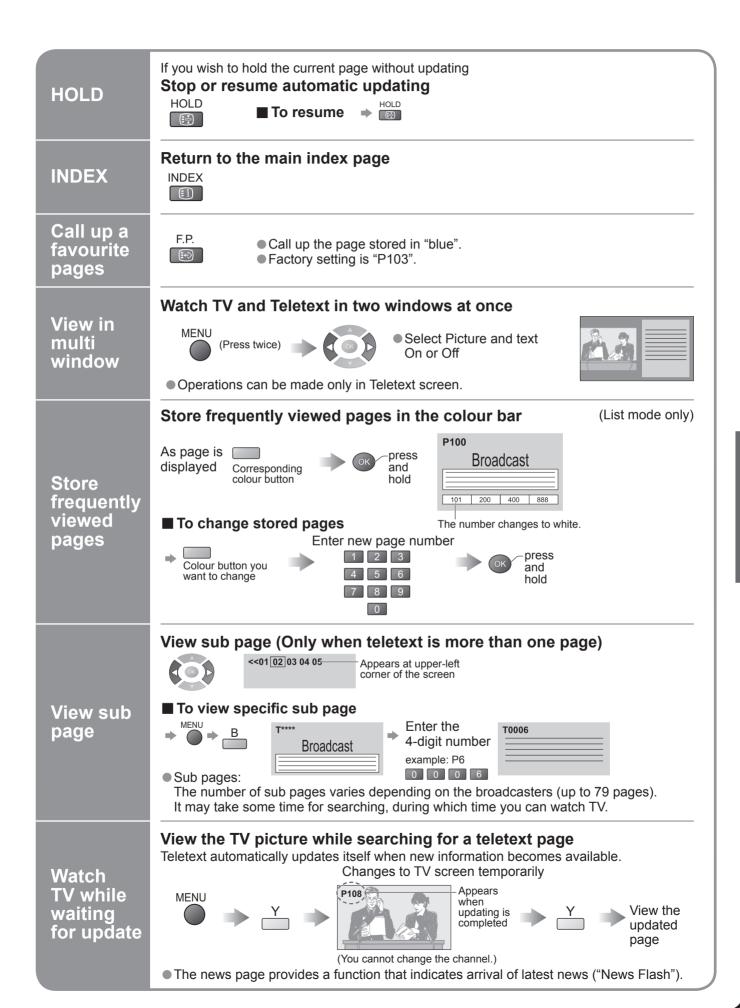
In List mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory. ("Store frequently viewed pages", p. 17)

■ To change mode → "Teletext" in Setup Menu (p. 21)



■ Using teletext conveniently





How to Use Menu Functions

Various menus allow you to make settings for the picture, sound, and other functions.



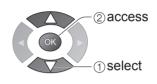
Display the menu



Displays the functions that can be set (varies according to the input signal)

Select the menu





(example: Picture Menu)

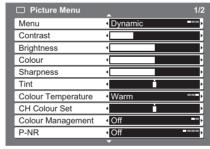
Select the item





(example: Picture Menu)

Adjust or select





(example: Picture Menu)

■ To return to the previous screen

■ To return to TV

at any time

EXIT



Note

To initialize all settings "Shipping Condition" (p. 25)

■ Choose from among alternatives

Number and positions of alternatives



Adjust using the slide bar



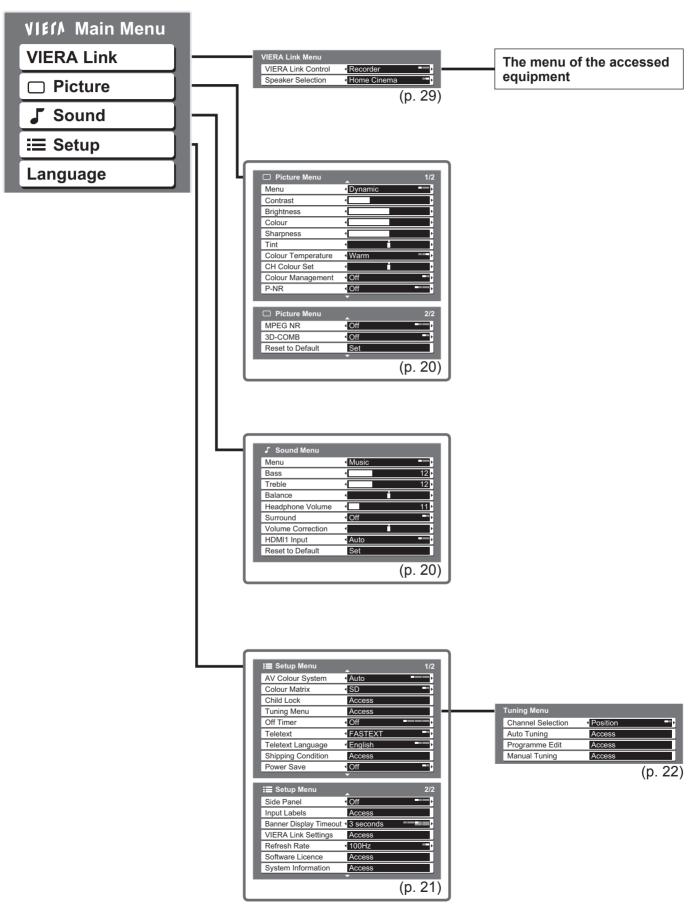
■ Go to the next screen



Displays the next screen

■ To change menu pages





Only available items can be selected.

How to Use Menu Functions

■ Menu list

| Menu | Item | Adjustments / Configurations (alternatives) |
|------------|--|---|
| VIERA Link | VIERA Link Control | Controls the connected Panasonic equipment "Easy control only with VIERA remote control" (p. 29) "Speaker control" (p. 29) |
| Link | Speaker Selection | You can also access VIERA Link Menu directly using the VIERA Link button on the remote control. |
| | Menu | Basic picture mode (Dynamic / Standard / Cinema) Set for each input signal |
| | Contrast, Brightness, Colour, Sharpness | Adjusts colour, brightness, etc. for each picture mode to suit your taste |
| | Tint | Adjusts tint of image ■ For NTSC signal reception only |
| | Colour Temperature | Chooses the colour balance of the entire image (Cool / Standard / Warm) |
| Pic | CH Colour Set | Colour density varying between broadcast channels can be adjusted to three levels for each reception channel Select the channel you want to adjust and set this function |
| Picture | Colour Management | Automatically adjusts colours to vivid ones (Off / On) Not valid on PC signal |
| | P-NR | Picture Noise Reduction Automatically reduces unwanted picture noise (Off / Weak / Strong / Auto) Not valid on HDMI or PC signal |
| | MPEG NR | Automatically reduces noise for watching DTV, DVD and VCD (Off / Weak / Mid / Strong) |
| | 3D-COMB | Automatically makes still pictures and slow pictures look more vivid (Off / On) For PAL or NTSC signal reception only Not valid on S-Video, components, PC and HDMI |
| | Reset to Default | Press the OK button to reset the present Picture Menu to the default settings |
| | Menu | Basic sound mode (Music / News / Cinema) Set for each input signal |
| | Bass | Adjusts the output level of deep bass |
| | Treble | Adjusts the output level of high-pitch, shrill sound |
| | Balance | Adjusts volume level of right and left speakers |
| (A) | Headphone Volume | Adjusts the volume of the headphones |
| Sound | Surround | Surround sound settings (Off / On) Switching is also possible by the Surround button on the remote control (p. 7) |
| <u> </u> | Volume Correction | Adjusts volume of individual channel or input mode |
| | HDMI1 Input | Select to fit the input signal (Auto / Digital / Analogue) (p. 34) Auto : Automatic detection of digital or analogue sound source Digital : HDMI cable connection Analogue : HDMI-DVI adapter cable connection HDMI input mode only HDMI2 terminal is for digital signal only No setting for HDMI2 available |
| | Reset to Default | Press the OK button to reset the present Sound Menu to the default settings |
| | | |

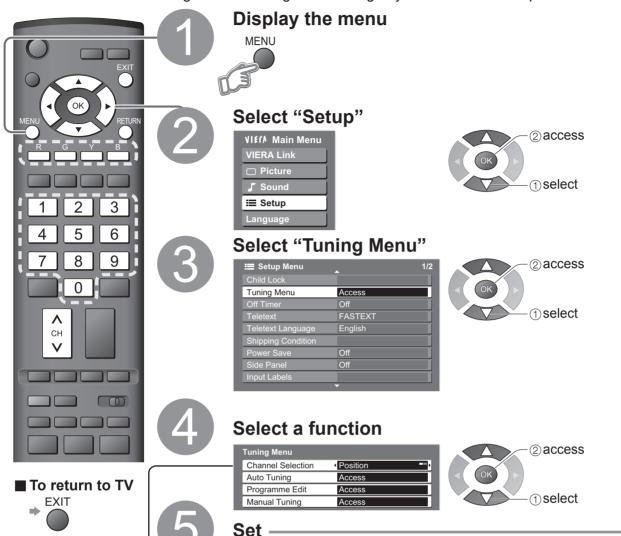
■ Menu list

| Menu | | Item | Adjustments / Configurations (alternatives) | | | |
|-------|----------------------|-----------------------|---|--|--|--|
| | AV | Colour System | Selects optional colour system based on video signals in AV mode (Auto / PAL / SECAM / NTSC4.43 / NTSC3.58) | | | |
| | Co | lour Matrix | Available only with 480p or 576p input signals in a natural colour from digital equipment connected to AV2 / AV3 Component or HDMI1 / HDMI2 terminals Select SD or HD to adjust suitable colour parameters for SD (standard definition) or HD (high definition) SD: Input signal is a normal TV system HD: Input signal is a High-Definition system | | | |
| | Ch | ild Lock | Locks a programme channel to prevent access to it (p. 24) | | | |
| | _ | Channel Selection | Selects the most easily viewed channel selection method (Position / Direct) (p. 22) | | | |
| | Tuning | Auto Tuning | Automatically sets the channels received in the area (p. 23) | | | |
| | Menu | Programme Edit | Edits channels (p. 23) | | | |
| | ב | Manual Tuning | Sets the channels manually (p. 22) | | | |
| | Off Timer | | Sets the time the TV automatically turns Off (Off / 15 / 30 / 45 / 60 / 75 / 90 minutes) | | | |
| | Teletext | | Teletext display mode (FASTEXT / List) (p. 16) | | | |
| Setup | Teletext Language | | Selects teletext language (English / CIS / E.Europe / Persian) | | | |
| qu | Shipping Condition | | Resets all settings, for example, when moving house (p. 25) | | | |
| | Po | wer Save | Reduces brightness of picture to economise on power consumption (Off / On) | | | |
| | Sid | de Panel | Increases the brightness of the side panel (Off / Low / Mid / High) The recommended setting is "High" to prevent panel "image retention" | | | |
| | Inp | out Labels | Labels or skips each input terminals (p. 26) | | | |
| | | nner Display neout | Sets how long the information banner (p. 13) stays on screen O (No display) to 10 sec. in 1-sec. increments | | | |
| | VIERA | VIERA Link | Sets to use VIERA Link functions (Off / On) (p. 28) | | | |
| | VIERA Link Settings | Power off Link | Set to "Set" to use Power off Link function (No / Set) (p. 29) | | | |
| | ettings | Power on Link | Set to "Set" to use Power on Link function (No / Set) (p. 29) | | | |
| | Refresh Rate | | Changes the image processing of the panel (depending on the input signal) (50Hz / 100Hz) Set to "100Hz" normally | | | |
| | Sof | ftware Licence | Displays the software licence information | | | |
| | Sys | stem Information | Displays the system information of this TV | | | |

A different menu will be displayed while PC is used. (p. 27)Only available items can be selected.

Editing and Setting Channels

The current channel settings can be changed according to your needs and reception conditions.



Channel Selection

■ Position

Set

channels

manually

Manual

Example

| Programme Number | Channel Display | Receive Channe |
|---------------------|--------------------|-------------------|
| 1 | 2 4 6 | 2 4 6 |
| 2 | 4 | 4 |
| 4 | 8 | 8 |
| 4 5 | 10 | 10 |
| 6 | 12 | 12 |
| 7 | 14 | 14 |
| 8 9 | 16 | 16 |
| | 18 | 18 |
| 10 | 20 | 20 |

When Channel Selection is on Position, and Auto Tuning is performed, the TV memorises the channels tuned in order from Programme Number 1. During Position mode various reception channels can be viewed.

■ Direct

Example

| Programme Number | | Receive Channe |
|---------------------|----|-------------------|
| 1 | _ | _ |
| 2 3 | 2 | 2 |
| 3 | _ | _ |
| 4 | 4 | 4 |
| 5 | _ | _ |
| | 6 | 6 |
| 7 | _ | _ |
| 8 | 8 | 8 |
| 9 | _ | _ |
| 10 | 10 | 10 |

When Channel Selection is on Direct, and Auto Tuning is performed, the TV memorises the Programme Number which is the same as the channel tuned. The Channel Display numbers for the broadcast stations in each region are listed on p. 32.

■ Fine Tuning

Use to make small adjustments to the tuning of an individual channel (affected by weather conditions, etc.)

■ Manual Tuning

Set channel manually after Auto Tuning.

If a VCR is connected with only the RF cable, select programme position "0".



Tuning Select the programme position







Select the channel





22

Automatically set the channels received in the area. If a Child Lock PIN number (p. 24) has been set, it must be entered. ① Select the channel selection method (Position / Direct)

"Channel Selection" (p. 22)

2 Start Auto Tuning Access "Auto Tunina"

Select your system

Settings are made automatically



Set channels automatically

Auto **Tuning**

| System Selection | REGION |
|------------------|---|
| China | China |
| HK/UK | Hong Kong, United Kingdom |
| Asia/M.East | Malaysia, Singapore, Thailand, Asia countries, Kuwait, Saudi Arabia, United Arab Emirates, Middle East countries, etc. |
| NZ/INDONES | New Zealand, Indonesia, etc. |
| Australia | Australia |
| E.Europe | CIS, Poland, etc. |
| SPECL Ver | South Africa |
| America | USA, Chile, Mexico, Panama, Pelu, Philippines, Taiwan, Venezuela, etc. |
| CATV | USA CATV |
| Japan | Japan |

- All previous settings are erased.
- When the operation is completed, the broadcast of programme number "1" will
- If tuning has not done completely → "Manual Tuning" (p. 22)

For Auto Tuning, using the buttons on the front of the TV

- ① Press repeatedly until "Auto Tuning" appears →
- ② Access "Auto Tuning" → ☐ (twice)

Not available when Child Lock is set (p. 24)



Edit the programme position settings

① Select the channel to edit

| | | amme E | | | |
|---------|----------|-------------|--------------------------------|-------------|------|
| | Prog. Ch | nan. Name | Sound Sys. | Colour Sys. | Skip |
| | 1 CH | H33 1 2 3 | 5.5MHz | Auto | Off |
| | 2 CH | H21 X Y Z | 5.5MHz | Auto | Off |
| _ | 3 CH | 121 FTP | 5.5MHz | Auto | Off |
| Cursor- | 4 CH | 160 | 5.5MHz | Auto | Off |
| | 5 CH | 121 4 5 6 | 5.5MHz | Auto | Off |
| - 1 | | | | | |

To change channel number → "Manual Tuning" (p. 22)

select Name

Channel-

■ To return to TV ⇒

② Edit

■ To delete ⇒ R

→ After confirming, press R

■ To add → G

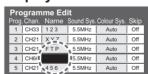
→ After confirming, press G

■ To move ⇒ —

Select new position



■ To change the name of the broadcaster displayed when selecting channels



Select the "Name" field R Enter the "User Input" mode Select the

(Maximum: five characters)

| 7 🚳 🖪 | OCICOL II |
|--------|-----------|
| | characte |
| OK | Set |
| RETURN | |

■ To change colour system based on signal

Normally, select "Auto"

| , | | | | | | | | | |
|----------------|---------|------|------------|-------------|-------|--|--|--|--|
| Programme Edit | | | | | | | | | |
| Prog | . Chan. | Name | Sound Sys. | Colour Sys. | Skip | | | | |
| 1 | CH33 | 123 | 5.5MHz | Auto | Off | | | | |
| 2 | CH21 | XYZ | 5.5MHz | Auto | Off | | | | |
| 3 | CH21 | FTP | 5.5MHz | Auto | Off | | | | |
| 4 | CH60 | | 5.5MHz II | Auto | ■ Off | | | | |
| 5 | CH21 | 456 | 5.5MHz | Auto | Off | | | | |



Store



Sys." field ■ To skip the channel

 This function is only effective when pressing the Programme Up / Down button on the TV or the remote control.

| Programme Edit | | | | | | | | | |
|----------------|--------|------|------------|-------------|------|--|--|--|--|
| Prog. | .Chan. | Name | Sound Sys. | Colour Sys. | Skip | | | | |
| 1 | CH33 | 123 | 5.5MHz | Auto | Off | | | | |
| 2 | CH21 | XYZ | 5.5MHz | Auto | Off | | | | |
| 3 | CH21 | FTP | 5.5MHz | Auto | 25.h | | | | |
| 4 | CH60 | | 5.5MHz | Auto II | Off | | | | |
| 5 | CH21 | 456 | 5.5MHz | Auto | TET | | | | |



sound system Change

Edit

channels

Programme Edit

■ Delete

Add

Move Change

name

l Change

colour system

■ Skip

■ To change sound system based on signals

If the sound is weak or distorted. change the sound system used for a programme channel. Select the

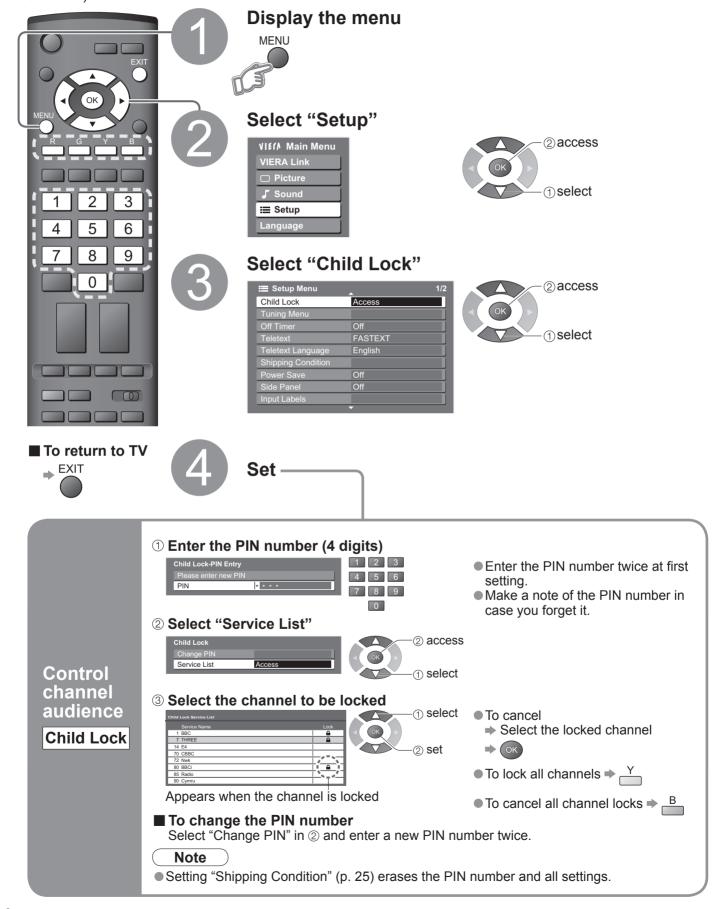




Select sound system

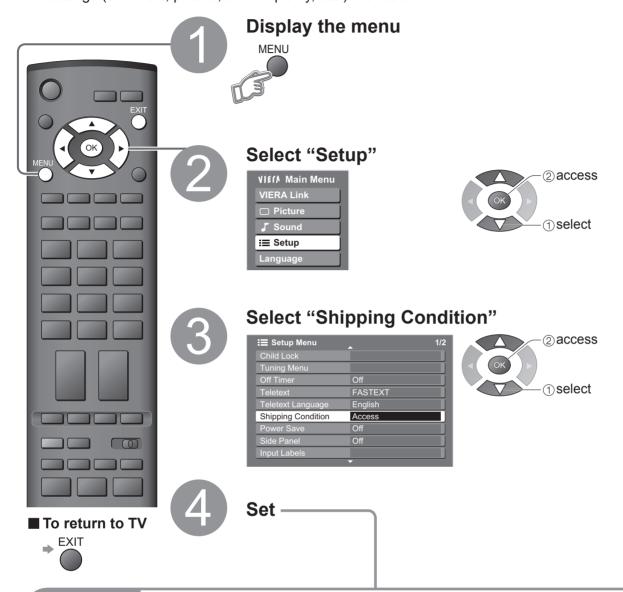
Control Channel Audience

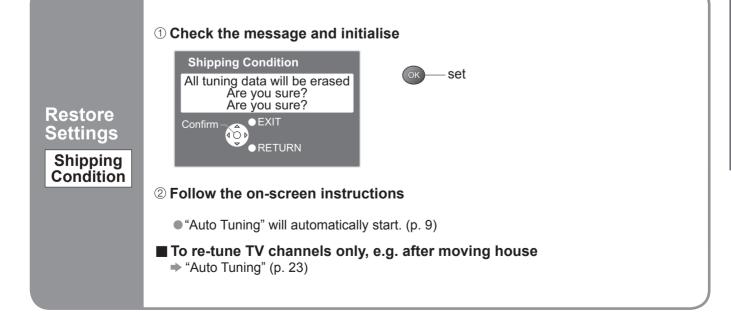
You can lock specific channels and control who watches them. (When a channel is selected, a message appears; by entering the PIN number, you can watch the channel.)



Restore Settings

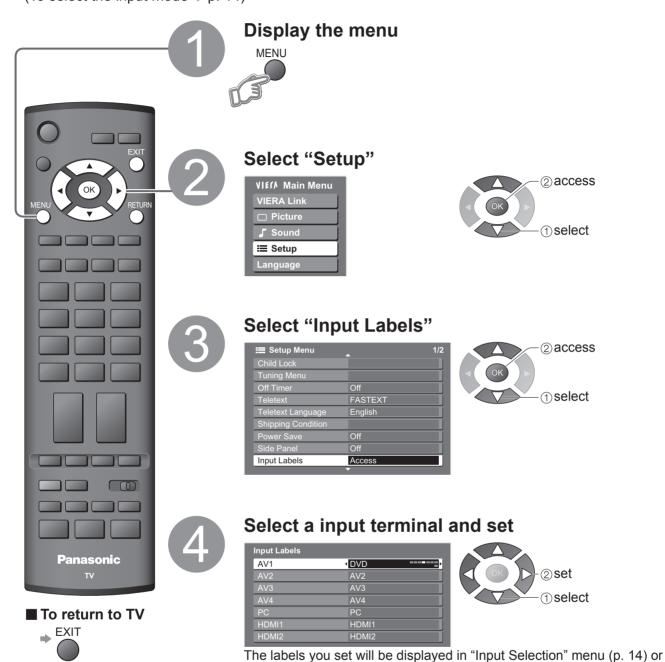
Resets the TV to its original condition, i.e. no channels tuned in. All settings (channels, picture, sound quality, etc.) are reset.





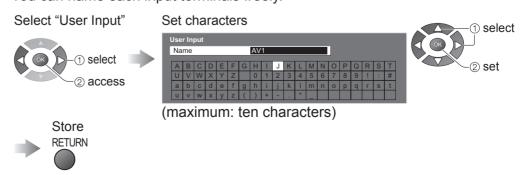
Input Labels

For easier identification and selection of the input mode, you can label each input terminals or skip terminal that is not connected to any equipment. (To select the input mode \Rightarrow p. 14)



■ User Input

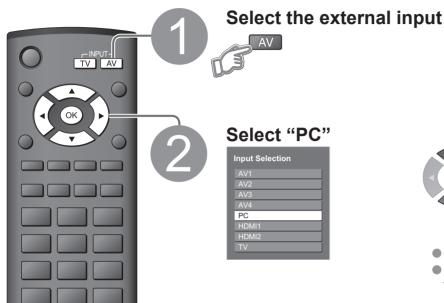
You can name each input terminals freely.



• If "Skip" is selected, you cannot select the mode.

Displaying PC Screen on TV

The screen of the PC connected to the TV can be displayed on the TV. You can also listen to PC sound with the audio cable connected. To connect PC (p. 30)





- Corresponding signals (p. 35)
- If "H-freq." or "V-freq." is shown in red, the signals may not be supported.

- To return to TV
 - ⇒ TV
- PC menu setting (changed as desired)
 - To make settings → "How to Use Menu Functions" 1 to 4 (p. 18)

| Menu | ı Item | | Adjustments / Configura | ations (options) |
|---------|--|---------------------|---|--------------------------------------|
| | | W/B High R | White balance of bright red area | |
| Picture | Advanced | W/B High B | White balance of bright blue area | (1) and (2) |
| | PC Settings W/B Low R White balance of bright red area W/B Low B White balance of dark blue area | | repeatedly adjusted | |
| re | | | | |
| | | Gamma | (2.0 / 2.2 / 2.5 / S Curve) | |
| | | Input Resolution | Switches to a wide view VGA (640 × 480 pixels), WVGA (852 × 480 pixels XGA (1,024 × 768 pixels), WXGA (1,366 × 768 pixels) Options change depending on signals | s), ixels) |
| | | Clock | Set to the minimum level if noise occurs | |
| So | 50 | H-pos | Adjusts horizontal position | |
| Setup | PC Setup | V-pos | Adjusts vertical position | |
| | | Clock Phase | Eliminates flicker and distortion • Adjust after Clock adjustment • Set | to the minimum level if noise occurs |
| | | Sync | Chooses another synchronous signal if the image is • H & V : by the horizontal and vertical signals from On G : by the green signal from your PC (if avail | n your PC ` |

VIERA Link "HDAVI Control™"*

*Enjoy additional HDMI Inter-Operability with Panasonic products which have "HDAVI Control" function. This TV supports "HDAVI Control 2" function.

Connections to some Panasonic equipment (DVD Recorder DIGA, HD Video Camera, Player theatre, etc.) with HDMI cables allow you to interface them automatically.

The equipment with "HDAVI Control" function enables the following operations:

- Easy playback (p. 29)
- Power on Link (p. 29)
- Power off Link (p. 29)
- Speaker control (p. 29)

In addition, the equipment with "HDAVI Control 2" function enables the following operation:

Easy control only with VIERA remote control (p. 29)

These features are limited to models incorporating Panasonic's "HDAVI Control" and "VIERA Link". VIERA Link "HDAVI Control", based on the control functions provided by HDMI which is an industry standard known as HDMI CEC (Consumer Electronics Control), is a unique function that we have developed and added. As such, its operation with other manufacturers' equipment that supports HDMI CEC cannot be guaranteed.

Refer to individual manuals for compatibility information. About applicable equipment, consult your local Panasonic dealer.

■ HDMI cable

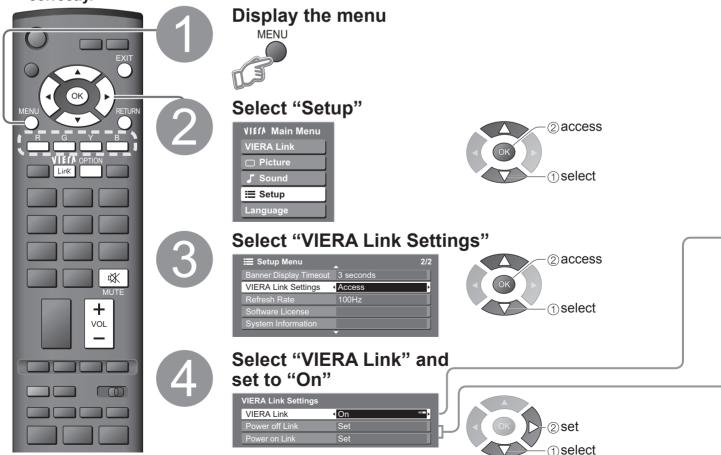
This function needs an HDMI compliant (fully wired) cable. Non-HDMI-compliant cables cannot be utilized. It is recommended that you use Panasonic's HDMI cable. Recommended part number:

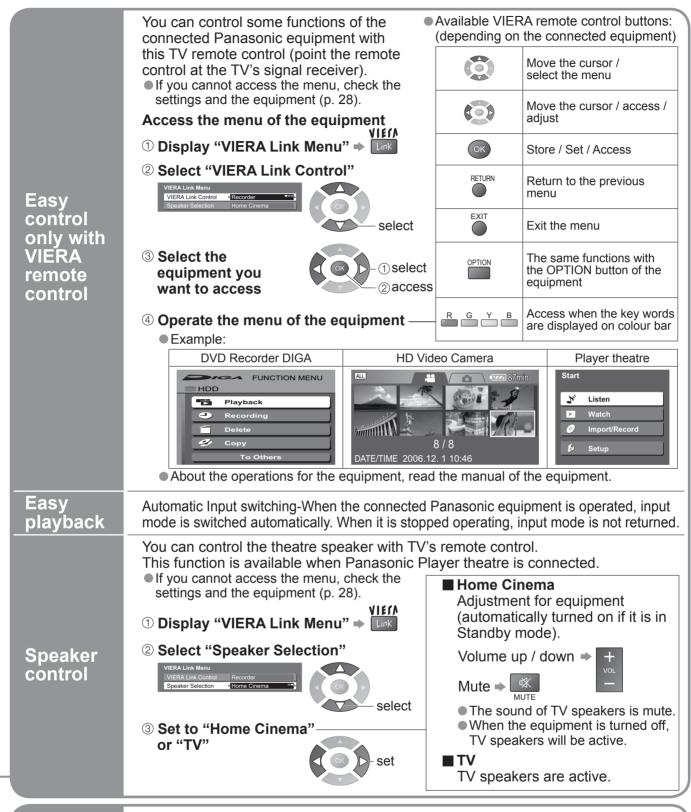
- RP-CDHG15 (1.5 m)
- RP-CDHG30 (3.0 m)
- RP-CDHG50 (5.0 m)

■ Preparations

Setup the equipment to enable this function. Read the manuals of the equipment. About connections, see "External Equipment" (p. 31). Read the manuals of the equipment too.

■ For the first time / When adding new equipment, reconnecting equipment or changing setup After connection turn the equipment on and then switch the TV on. Select the input mode to HDMI1 or HDMI2 (p. 14), and make sure that an image is displayed correctly.





Power on Link

Set to "Set"

➤ When the connected Panasonic equipment starts playback or direct navigator / function menu for the equipment are activated, the TV is automatically turned on. (Only when TV is in Standby mode.)

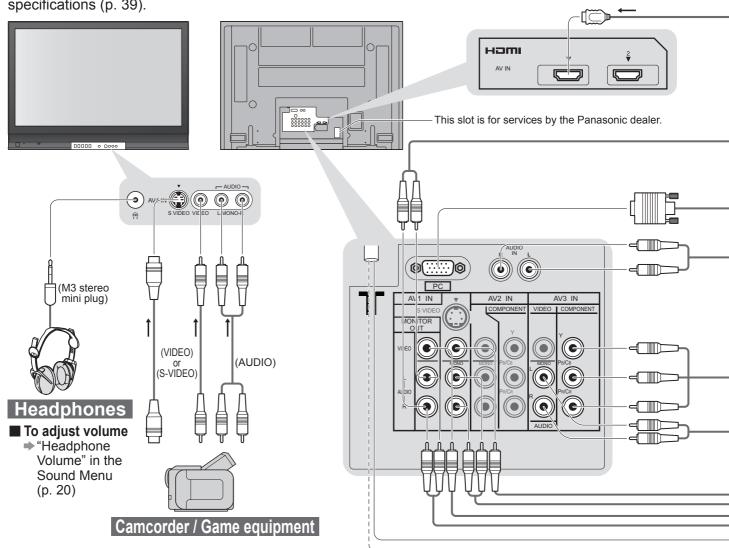
Power off Link

Set to "Set"

- ➤ When TV is set to Standby mode, the connected Panasonic equipment is also automatically set to Standby.
- This function will work even if the TV enters standby mode automatically by Off Timer function or auto power standby function.
- The TV remains on even if the "VIERA Link" compatible equipment is turned off.

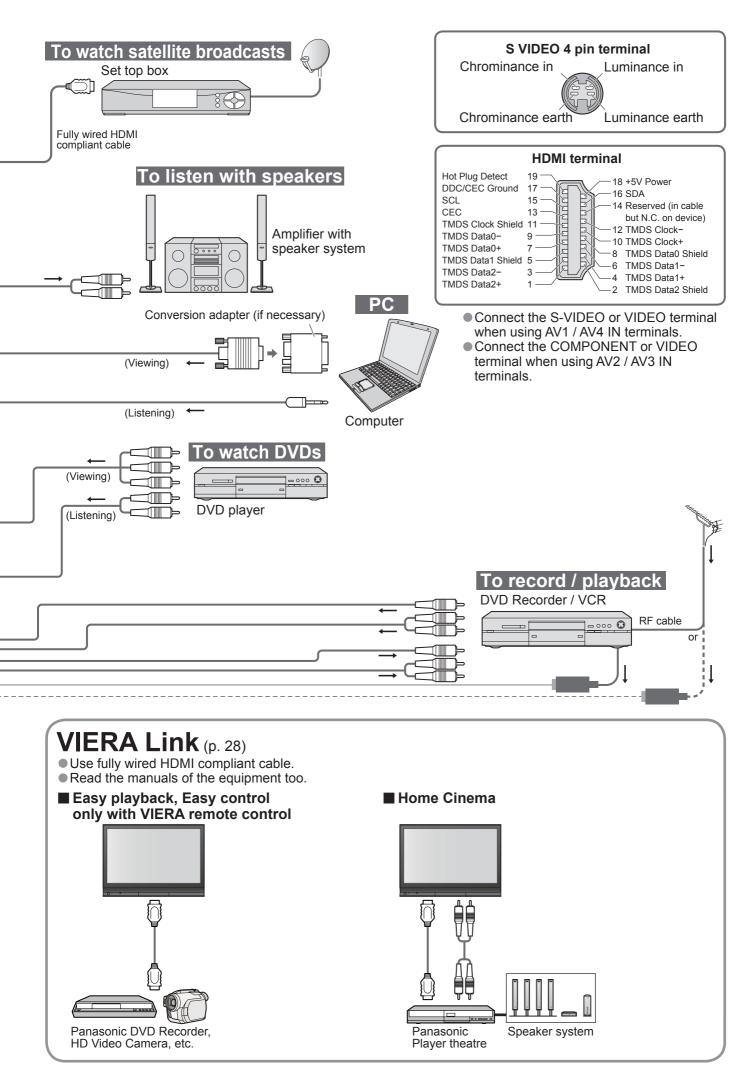
External Equipment

These diagrams show our recommendations for how to connect the TV to your various equipment. For other connections, consult the instructions for each piece of equipment, the table below, and the specifications (p. 39).



| Types of | connectable | equipment to | each c | onnector |
|----------|--------------|-----------------|---------|---------------------------|
| | COLLICCIANIC | Eddibilielit to | Cacilic | UI II I C CIUI |

| Connector Recording / Playback | IN (+) (-) | AV2 IN | IN | AV4 IN (Front of TV) | MONITOR OUT © | IMCH | |
|---|---------------|-----------|----|----------------------|---------------------|---------|---|
| (equipment) | | | | | | 1 | 2 |
| ■ To record / playback videocassettes / DVDs (VCR / DVD recorder) | 0 | 0 | 0 | 0 | 0 | | |
| ■To watch DVDs (DVD player) | 0 | 0 | 0 | 0 | | 0 | 0 |
| ■To watch camcorder images (Video camera) | 0 | 0 | 0 | \bigcirc | | \circ | |
| ■To watch satellite broadcasts (Set top box) | 0 | 0 | 0 | \bigcirc | | \circ | |
| ■To play games (Game equipment) | | 0 | 0 | O | | | |
| ■To use amplifier with speaker system | | | | | | | |
| ■VIERA Link | | | | | | 0 | |



Technical Information

| | | | | Chanr | nel Allo | cation | | | | |
|---|--|---|--|--|--|--|--|----------------|-------|---------------------------------|
| System Selection | China | HK/UK | Asia/M.East | | • | | | America | CATV | Japan |
| CH DISPLAY | | <u> </u> | | | RECEIVE | | - | | | |
| 0 1 2 3 4 5 6 7 11 12 13 14 15 16 - | 12 13 | - - - - - - - - - - - - - - - - - - - | 11 12 | 112 | - 0 1 2 3 4 5 \$2 \$ \$ \$10 6 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 11 2 - - 11 12 - - - | 1 1 2 - - 11 12 13 - - | 13 14 | 12 | 12 13 |
| 19 20 | } | _ | _ | _ | 9 9A | _ | _ | } | { | } |
| 21 22 23 24 28 28 27 57 58 59 262 63 269 | 57 | 21 | 21 | 21 | 10 11 12 S11 - - S44 20 21 | 21 | 21 | 62 63 69 | 62 63 | 62 C13 |
| 70 / 73 74 75 76 77 78 79 | - - - - - - | - - S'1 S'2 S'3 - - | | - - S'1 S'2 S'3 - - | | - - S'1 - - - - | - S'1 S'2 S'3 - - | 1111111 | | |
| 80 81 } 89 | _ Z1 { Z9 | S1 S2 } S10 | S1 S2 } S10 | S1 S2 } S10 | | S1 S2 } S10 | S1 S2 } S10 | - - - | } | |
| 90 91 92 93 94 95 96 97 98 99 | Z10 Z11 Z12 Z13 Z14 Z15 Z16 Z17 Z18 Z19 | \$11 \$12 \$13 \$14 \$15 \$16 \$17 \$18 \$19 \$20 | \$11 \$12 \$13 \$14 \$15 \$16 \$17 \$18 \$19 \$20 | \$11 \$12 \$13 \$14 \$15 \$16 \$17 \$18 \$19 \$20 | | \$11 \$12 \$13 \$14 \$15 \$16 \$17 \$18 \$19 \$20 | - S14 S15 S16 S17 S18 S19 S20 | | 99 | C49 |
| 100 | Z20 | S21 | \$21 | S21 | 69 - - - - - | S21 | \$21 | | 100 | - - - - - - - |

Aspect Ratio

The optimum size and aspect can be chosen, and you can enjoy finer images. (p. 13)

| | | Aspect modes | | | | | | |
|------------------------|----------------|--------------|------|-----|----------|-------|-------|-------|
| | nal name | 16:9 | Just | 4:3 | 4:3 Full | Zoom1 | Zoom2 | Zoom3 |
| TV/AV1/AV2/ AV3/AV4 | PAL | 0 | 0 | 0 | _ | 0 | 0 | 0 |
| ₹ | PAL 525/60 | 0 | 0 | 0 | _ | 0 | 0 | 0 |
| A A | NTSC 4.43 | 0 | 0 | 0 | _ | 0 | 0 | 0 |
| 4 <u>S</u> | NTSC 3.58 | 0 | 0 | 0 | _ | 0 | 0 | 0 |
| | 525(480)/60i | 0 | 0 | 0 | _ | 0 | 0 | 0 |
| 0 | 525(480)/60p | 0 | 0 | 0 | _ | 0 | 0 | 0 |
| Component/HDMI | 625(576)/50i | 0 | 0 | 0 | _ | 0 | 0 | 0 |
| D D | 625(576)/50p | 0 | 0 | 0 | _ | 0 | 0 | 0 |
| on on | 750(720)/50p | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ent | 750(720)/60p | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ì | 1125(1080)/50i | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 1125(1080)/60i | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| = | 1125(1080)/50p | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1125(1080)/60p | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PC i | nput | 0 | _ | 0 | _ | _ | _ | _ |

Note

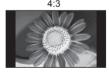
- The ratio varies depending on the programme, etc. If the ratio is greater than the standard "16:9", black bands may appear at the top and bottom of the screen.
- If the screen size looks unusual when a widescreen-recorded programme is played back on a VCR, adjust the tracking of the VCR. (See the VCR manual.)
- To select the ratio manually: (Only "16:9" or "4:3" in PC mode)



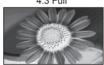
Directly displays the image at "16:9" without distortion (anamorphic).



Displays a 4:3 image full-screen. Stretching is only noticeable at the left and right edges.



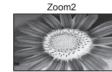
Displays the image at the standard "4:3" without distortion.



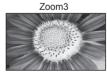
Displays a "4:3" image enlarged horizontally to fit the screen.



Displays a "16:9" letterbox or "4:3" image without distortion.



Displays a "16:9" letterbox (anamorphic) image full-screen without distortion.



Displays a "2.35:1" letterbox (anamorphic) image full-screen without distortion. At "16:9", displays the image at its maximum (with slight enlargement).

VIERA Link "HDAVI Control™"

HDMI connections to some Panasonic equipment allow you to interface them automatically. (p. 28)

- This function may not work normally depending on the equipment condition.
- Image or sound may not be available for the first few seconds when the playback starts.
- Image or sound may not be available for the first few seconds when Input mode is switched.
- Volume function will be displayed when adjusting the volume of the equipment.
- Easy playback is also available by using the remote control for Player theatre. Read the manuals of the equipment.
- If you connect the same kind of equipment at once (for example: one DIGA to HDMI1 / another DIGA to HDMI2), VIERA Link is available for the terminal with the smaller number.
- "HDAVI Control 2" is the newest standard (current as of February, 2007) for Panasonic's HDAVI Control compatible equipment. This standard is compatible with Panasonic's conventional HDAVI equipment.

Technical Information

Stereo / Bilingual Sound Selection

 ∞/∇ When you receive the stereo / bilingual sound system, sound output modes can be selected by pressing the **I/II** Stereo / Bilingual Sound Selection button.

| Audio Signal | STEREO | MAIN I | SUB I | MONO |
|----------------|--------|--------|-------|----------|
| Mode Indicator | 0 | I | п | ∇ |

NICAMUsed in New Zealand, Singapore, Hong Kong etc.

| Type of broadcast | Regular broadcast (Standard Audio) | Regular + NICAM MONO I (MAIN I) | NICAM STEREO | NICAM DUAL MONO (MAIN I / SUB II) | |
|-------------------|---------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------|--|
| Mode Indicator | No Indicator $\longrightarrow \nabla$ | I → ▽ | \bigcirc \longrightarrow \vee | | |

A2(German)Used in Australia, Malaysia etc.

| Type of broadcast | Regular broadcast (Standard Audio) | BILINGUAL or DUAL MONO: MAIN I / SUB II | STEREO |
|-------------------|------------------------------------|--|--------------------------------|
| Mode Indicator | No Indicator → ▽ | Ι ↔ Π | \bigcirc \leftarrow \lor |

Note

- If the stereo signal is poor or the receiving conditions are not optimum or if STEREO:MONO automatic switching occurs, it is recommended you switch from STEREO to MONO.
- Even when the contents of the receiving signal undergo changes, selection mode is kept intact.
- When the receiving conditions deteriorate, listening will be easier if the mode is set to the MONO position, using the stereo / bilingual sound selection button.
- DUAL, also known as DUAL MONO or as BILINGUAL is not currently transmitted in some countries.

HDMI connection

HDMI (high-definition multimedia interface) allows you to enjoy high-definition digital images and high-quality sound by connecting the TV and the equipment.

HDMI-compatible equipment (*1) with an HDMI or DVI output terminal, such as a set top box or a DVD player, can be connected to the HDMI terminal using an HDMI compliant (fully wired) cable. About connections, see "External Equipment" (p. 30).

Note

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI1 terminal via a DVI to HDMI adapter cable (*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal (HDMI1: use AUDIO IN terminals).
- Audio settings can be made on the "HDMI1 Input" menu screen. (p. 20)
- Applicable audio signal sampling frequencies (2ch L.PCM): 48 kHz, 44.1 kHz, 32 kHz
- HDMI2 terminal is for digital audio signal only.
- Use with a PC is not assumed.
- If the connected equipment has an aspect adjustment function, set the aspect ratio to "16:9".
- These HDMI connectors are "type A".
- These HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
- An equipment having no digital output terminal may be connected to the input terminal of either "Component", "S-VIDEO", or "Video" to receive analogue signals.
- The HDMI input terminal can be used with only the following image signals: 480i, 480p, 576i, 576p, 720p, 1080i and 1080p. Match the output setting of the digital equipment.
- For details of the applicable HDMI signals, see p. 35.
- (*1): The HDMI logo is displayed on HDMI-compliant equipment.
- (*2): Enquire at your local digital equipment retailer shop.

PC connection

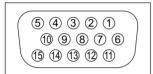
- A PC may be connected to this TV so that the PC screen is displayed and sound is heard from the TV.
- PC signals that can be inputted: Horizontal scanning frequency 31 to 69 kHz; vertical scanning frequency 59 to 86 Hz (more than 1,024 signal lines could result in incorrect display of the image).
- A PC adapter is not necessary for the DOS/V-compliant D-sub 15-pin connector.

Note

- Some PC models cannot be connected to this TV.
- When using PC, set the colour display quality of PC to the highest position.
- For details of the applicable PC signals, see below.
- Max. display resolution

| Model No. Aspect | TH-37PV70AZ | TH-42PV70AZ | TH-50PV70AZ | |
|------------------|--------------------|--------------------|--------------------|--|
| 4:3 | 768 × 720 pixels | 768 × 768 pixels | 1,024 × 768 pixels | |
| 16:9 | 1,024 × 720 pixels | 1,024 × 768 pixels | 1,366 × 768 pixels | |

D-sub 15-pin connector signal



| Pin No. | Signal Name | Pin No. | Pin No. Signal Name | | Signal Name |
|---------|--------------------|---------|---------------------|-----|--------------------|
| 1 | R | 6 | GND (Ground) | (1) | NC (not connected) |
| 2 | G | 7 | GND (Ground) | 12 | NC (not connected) |
| 3 | В | 8 | GND (Ground) | 13 | HD |
| 4 | NC (not connected) | 9 | NC (not connected) | 14) | VD |
| (5) | GND (Ground) | 10 | GND (Ground) | 15 | NC (not connected) |

Input signal that can be displayed

COMPONENT (Y, PB/CB, PR/CR), HDMI

* Mark: Applicable input signal

| - Mark. Applicable input signal | | | | | | | | |
|---------------------------------|-----------|------|--|--|--|--|--|--|
| Signal name | COMPONENT | HDMI | | | | | | |
| 525 (480) / 60i | * | * | | | | | | |
| 525 (480) / 60p | * | * | | | | | | |
| 625 (576) / 50i | * | * | | | | | | |
| 625 (576) / 50p | * | * | | | | | | |
| 750 (720) / 60p | * | * | | | | | | |
| 750 (720) / 50p | * | * | | | | | | |
| <u>1,125 (1,080) / 60i</u> | * | * | | | | | | |
| 1,125 (1,080) / 50i | * | * | | | | | | |
| 1,125 (1,080) / 60p | | * | | | | | | |
| 1,125 (1,080) / 50p | | * | | | | | | |

PC (D-sub 15P)

| FC (D-Sub 15F) | | | | | | | |
|----------------------------|----------------------------|-------------------------|--|--|--|--|--|
| Signal name | Horizontal frequency (kHz) | Vertical frequency (Hz) | | | | | |
| 640 × 400 @70 Hz | 31.47 | 70.07 | | | | | |
| 640 × 480 @60 Hz | 31.47 | 59.94 | | | | | |
| 640 × 480 @75 Hz | 37.50 | 75.00 | | | | | |
| 800 × 600 @60 Hz | 37.88 | 60.32 | | | | | |
| 800 × 600 @75 Hz | 46.88 | 75.00 | | | | | |
| 800 × 600 @85 Hz | 53.67 | 85.06 | | | | | |
| 852 × 480 @60 Hz | 31.44 | 59.89 | | | | | |
| 1,024 × 768 @60 Hz | 48.36 | 60.00 | | | | | |
| 1,024 × 768 @70 Hz | 56.48 | 70.07 | | | | | |
| 1,024 × 768 @75 Hz | 60.02 | 75.03 | | | | | |
| 1,024 × 768 @85 Hz | 68.68 | 85.00 | | | | | |
| 1,280 × 1,024 @60 Hz | 63.98 | 60.02 | | | | | |
| 1,366 × 768 @60 Hz | 48.39 | 60.04 | | | | | |
| Macintosh13" (640 × 480) | 35.00 | 66.67 | | | | | |
| Macintosh16" (832 × 624) | 49.73 | 74.55 | | | | | |
| Macintosh21" (1,152 × 870) | 68.68 | 75.06 | | | | | |

Note

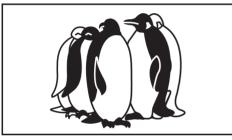
- Signals other than above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.
- Applicable input signal for PC is basically compatible to VESA standard timing.
- PC signal is magnified or compressed for display, so that it may not be possible to show fine detail
 with sufficient clarity.

FAQs

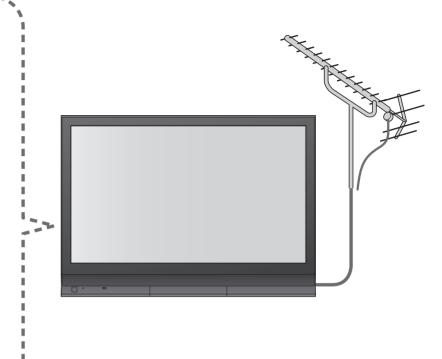
Before requesting service or assistance, please follow these simple guides to resolve the problem. If problem still persists, please contact your local Panasonic dealer for assistance.

White spots or shadow images (noise)





 Check the position, direction, and connection of the aerial.



Permanently lit spots on screen

 Due to production process involved in this technology this may result in some pixels which are permanently lit or unlit. This is not a malfunction.

Neither image nor sound is produced

- Is the TV in "AV mode"?
- Is the mains lead plugged into the socket outlet?
- Is the TV turned On?
- Check Picture Menu (p. 20) and volume.

An error message appears

- Follow the message's instructions.
- If the problem persists, contact the authorized Service Centre.

Contrast is reduced

- Contrast is lowered when the following conditions without any user operation for a few minutes:
 - no signal in AV mode
 - selected locked channel
 - selected invalid channel
 - selected radio channel
 - displayed menu

| | Problem | | Actions | |
|--------|---|----------|--|--|
| | Chaotic image, noisy | | Set "P-NR" in the Picture Menu (to remove noise). (p. 20) Check nearby electrical products (car, motorcycle, fluorescent lamp). | |
| Screen | No image can be displayed | | Is "Colour" or "Contrast" in the Picture Menu set to the minimum? (p. 20) Check Colour system. (p. 23) | |
| een | Blurry or distorted image (no sound or low volume) |) | Reset channels. (p. 23) | |
| | Unusual image is displayed |) | • Turn off the TV with Mains power On / Off switch, then turn it on again. | |
| Sound | No sound is produced | | Is "Sound mute" active? (p. 7)Is the volume set to the minimum? | |
| pur | Sound level is low or sound is distorted | | Sound signal reception may be deteriorated. Check Sound system. (p. 23) | |
| HDMI | Sound is unusual | | Set the sound setting of the connected equipment to "2ch L.PCM". Check the "HDMI1 Input" setting in the Sound Menu. (p. 20) If digital sound connection has a problem, select analogue sound connection. (p. 34) | |
| IM | Pictures from external equipment are unusual when the equipment is connected via HDMI | | Is the HDMI cable connected properly? (p. 30) Turn Off the TV and equipment, then turn them On again. Check an input signal from the equipment. (p. 35) Use an equipment compliant with EIA/CEA-861/861B. | |
| Other | TV goes into "Standby mode" | | Off Timer function is activated. The TV enters "Standby mode" about 30 min. after broadcasting ends. | |
| | The remote control does not work | | Are the batteries installed correctly? (p. 6)Has the TV been switched On? | |

Licence

Trademark Credits

- VGA is a trademark of International Business Machines Corporation.
- Macintosh is a registered trademark of Apple Computer, USA.
- S-VGA is a registered trademark of the Video Electronics Standard Association.
 Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.
- HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- HDAVI Control™ is a trademark of Matsushita Electric Industrial Co., Ltd.

WARRANTY - New Zealand only

WE WARRANT that the Panasonic Television that you have purchased is free from defects in material and workmanship under normal home use and service.

Accordingly, we undertake to repair, or at our option, replace without cost to the owner, either for material or labour, any part which within 12 months from the date of delivery is found to be defective, provided that the appliance has been used for domestic purposes only and in accordance with the instructions given in the Instruction Book and not been subjected to misuse, neglect or installed, dismantled, repaired or serviced by any other than an authorised Panasonic New Zealand Dealer or Panasonic New Zealand Authorised Service Centre.

NOTE

- Before reporting a fault, please ensure that you read the item "Troubleshooting" in the information section of your Panasonic Instruction Book.
 It is important to retain your proof of purchase as this will be required by the serviceman or retailer as proof of purchase date, should
- service be required by the service between the property of the service between the ser
- In the event of service being required, contact your Panasonic New Zealand retailer or Panasonic New Zealand Authorised Service Centre. IMPORTANT

Any request for warranty service must be through an Authorised Panasonic New Zealand Service Centre who during the period of the warranty, undertakes to make any necessary adjustment and fit any replacement part supplied by the manufacturer, during normal working hours, or alternatively will arrange for such service to be provided by some other Panasonic New Zealand Authorised Service Centre.

NEW ZEALAND

Distributed in New Zealand by Panasonic New Zealand Limited
350 Te Irirangi Drive East Tamaki, Private Bag 14911, Panmure Auckland
Tel. 09 272 0100

Customer Care Center Email: Customerservice@panasonic.co.nz www.panasonic.co.nz

Specifications

| | | | TH-37PV70AZ | TH-42PV70AZ | TH-50PV70AZ | | | |
|------------------------------------|---------------------|-----------------|--|---|---|--|--|--|
| Pow | er Source | 9 | AC 220-240 V, 50 / 60 Hz | , | | | | |
| Power Consumption | Average | use | 310 W | 341 W | 519 W | | | |
| nption | Standby | condition | 0.7 W | | 0.5 W | | | |
| pa D | Aspect Ratio | | 16:9 | | | | | |
| Display panel | Visible screen size | | 94 cm (diagonal) 819 mm (W) × 457 mm (H) | 106 cm (diagonal) 922 mm (W) × 518 mm (H) | 127 cm (diagonal) 1,106 mm (W) × 622 mm (H) | | | |
| | Number of pixels | | [3,072 × 720 dots] | 786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots] | 1,049,088 (1,366 (W) × 768 (H)) [4,098 × 768 dots] | | | |
| တ္တ Speaker | | | 120 mm × 60 mm × 2 pcs, 8 Ω | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | |
| Sound | Audio O | utput | 20 W (10 W + 10 W), 10% TH | D | | | | |
| ā | Headpho | ones | M3 (3.5 mm) stereo mini jack × 1 | | | | | |
| PC s | ignals | | VGA, SVGA, XGA SXGA ······ (compressed) Horizontal scanning frequency Vertical scanning frequency 59 | | | | | |
| Receiving Systems / Band name | | stems / | 17 Systems Function 1 PAL B, G, H 2 PAL I 3 PAL D, K 4 SECAM B, G 5 SECAM D, K 6 SECAM K1 NITCO M (NITCO M) | 17 Systems | | | | |
| | | | 7 3.58/4.5 MHz) | | ayback from Special Disc Players d Special VCR's or DVD | | | |
| Receiving Channels (Regular TV) | | annels | VHF BAND 2-12 (PAL/SECAM B, K1) 0-12 (PAL B AUST.) 1-9 (PAL B N.Z.) 1-12 (PAL/SECAM D) 1-12 (NTSC M Japan) 2-13 (NTSC M USA) | UHF BAND 21-69 (PAL G, H, I/SECAM G, K, 28-69 (PAL B AUST.) 13-57 (PAL D, K) 13-62 (NTSC M Japan) 14-69 (NTSC M USA) | CATV K1) S1-S20 (OSCAR) 1-125 (USA CATV) C13-C49 (JAPAN) S21-S41 (HYPER) Z1-Z37 (CHINA) 5A, 9A (AUST.) | | | |
| Aeri | al - Rear | | VHF / UHF | | | | | |
| Ope | rating Co | nditions | Temperature : 0 °C - 35 °C Humidity : 20 % - 80 % R | tH (non-condensing) | | | | |
| င္၀ | AV1 | AUDIO L - R | RCA PIN Type × 2 | 0.5 V[rms] | | | | |
| n n | Input | VIDEO | RCA PIN Type × 1 | 1.0 V[p-p] (75 Ω) | | | | |
| Connectio | • | S VIDEO | Mini DIN 4-pin | Y:1.0 V[p-p] (75 Ω) C:0.286 | V[p-p] (75 Ω) | | | |
| | A\/0 | AUDIO L - R | RCA PIN Type × 2 | 0.5 V[rms] | | | | |
| <u>e</u> | AV2 Input | VIDEO | RCA PIN Type × 1 | 1.0 V[p-p] (75 Ω) 1.0 V[p-p] (including synchronic syn | onization) | | | |
| n Terminals | • | COMPONENT | Рв/Св, Pr/Cr | ±0.35 V[p-p] | onization) | | | |
| าลเ | | AUDIO L - R | RCA PIN Type × 2 | 0.5 V[rms] | | | | |
| O) | AV3 | VIDEO | RCA PIN Type × 1 | 1.0 V[p-p] (75 Ω) | | | | |
| | Input | COMPONENT | Y Рв/Св, Pr/Сr | 1.0 V[p-p] (including synchro ±0.35 V[p-p] | onization) | | | |
| | A)// | AUDIO L - R | RCA PIN Type × 2 | 0.5 V[rms] | | | | |
| | AV4 Input | VIDEO | RCA PIN Type × 1 | 1.0 V[p-p] (75 Ω) | | | | |
| | mpat | S VIDEO | Mini DIN 4-pin | Y:1.0 V[p-p] (75 Ω) C:0.286 | V[p-p] (75 Ω) | | | |
| | | HDMI1 / 2 Input | TYPE A Connectors | This TV supports "HDAVI" | Control 2" function. | | | |
| | Others | PC Input | HIGH-DENSITY D-SUB 15PIN | | | | | |
| | | Audio Input | RCA PIN Type × 2 | 0.5 V[rms] | | | | |
| | | AUDIO L - R | RCA PIN Type × 2 | 0.5 V[rms] (high impedance |) | | | |
| | Output | VIDEO | RCA PIN Type × 1 | 1.0 V[p-p] (75 Ω) | | | | |
| Dimensions (W × H × D) | | W×H×D) | 917 mm × 690 mm × 320 mm (With Pedestal) 917 mm × 645 mm × 94 mm (TV only) | (With Pedestal) 1,020 mm × 705 mm × 94 mm (TV only) | 1,210 mm × 864 mm × 370 mm (With Pedestal) 1,210 mm × 818 mm × 94 mm (TV only) | | | |
| Mas | s | | 26.0 kg Net (With Pedestal) 24.0 kg Net (TV only) | 30.0 kg Net (With Pedestal) 28.0 kg Net (TV only) | 40.0 kg Net (With Pedestal) 38.0 kg Net (TV only) | | | |

Note

[•] Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.